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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,351	09/30/2003	Sean J. Hart	NC 84,517	8470
26384 7550 ONTO 2008 NAVAL RESEARCH LABORATORY ASSOCIATE COUNSEL (PATENTS) CODE 1008 2 4555 OVERLOOK AVENUE, S.W. WASHINGTON, DC 20375-5320			EXAMINER	
			DRODGE, JOSEPH W	
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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Ex parte SEAN J. HART and ALEXANDER V. TERRAY

Appeal 2008-1138 Application 10/673,351 Technology Center 1700

Decided: March 10, 2008

Before EDWARD C. KIMLIN, CHUNG K. PAK, and ROMULO H. DELMENDO, *Administrative Patent Judges*.

KIMLIN, Administrative Patent Judge.

DECISION ON APPEAL

This is an appeal from the final rejection of claims 11-18.

Claim 11is illustrative:

11. A device comprising:

a PDMS body having a fluid pathway arranged to permit flow of a fluid in a first direction therethrough; and

a light input part arranged to accept input light and permit the input light to travel into said PDMs body and through said fluid pathway in a second direction opposite of the first direction.

The Examiner relies upon the following reference in the rejection of the appealed claims:

Dapprich 6,585,939 B1 Jul. 1, 2003

Appellants' claimed invention is directed to a poly(dimethylsilozane) (PDMS) body having a fluid pathway that is arranged to permit flow of a fluid in a first direction. The device also comprises a light input part that is arranged to permit the light to travel in the PDMS body through the fluid pathway in a direction that is opposite to the first direction of the fluid flow.

Appealed claims 11-18 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Dapprich.

We have thoroughly reviewed the respective positions advanced by Appellants and the Examiner. In so doing, we find ourselves in agreement with Appellants that the Examiner has failed to establish a prima facie case of description within the meaning of § 102. Accordingly, we will not sustain the Examiner's rejection.

The Examiner acknowledges that Dapprich fails to describe a particular arrangement for the disclosed microstructures that allows for light to travel in a fluid pathway in a direction that is opposite to the direction of the fluid flow. It is the Examiner's position that Dapprich discloses light input part 62 that is operable to reverse or change the direction of light flow through the pathway, citing Fig. 9 of the reference, column 12, lines 22-58

and column 13, lines 30-44. The Examiner also states that Dapprich discloses "[a]dditional light input and light travel-causing parts/optical devices [that] include various lenses, mirrors and other reflecting and refracting surfaces, optical observers and optical scatterers that receive or input light and redirect light to flow in many different directions, inherently including directions opposed to directions of flow of fluid" (Ans. 5, first para., emphasis added). The Examiner cites Dapprich at column 12, lines 21 through column 13, line 28.

There is no question that Dapprich discloses microstructures for use in biological assays that may include a variety of optical elements, such as refractive and reflective structures, such as lenses and mirrors, and diffractive components such as input-coupler gratings, fresnel lenses, and holographic components. However, the flaw in the Examiner's rejection is that Dapprich fails to provide a clear description of a particular arrangement of any of the listed optical elements that allows for light to travel in a fluid pathway in a direction that is opposite to the direction of fluid flow. It is not sufficient to support a rejection under § 102 that the elements disclosed in Dapprich may be arranged in a specific device to meet the requirements of the claimed device. To support a rejection of the appealed claims under § 102, the Examiner must point to a specific description in the reference of a device wherein light travels in a fluid pathway in a direction opposite to the direction of the fluid flow. This the Examiner has not done. At best, the Examiner has pointed out that if an optical observer or scatterer is placed in the proper location in the reference device, light will travel in all directions

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which necessarily include the direction opposite to the fluid flow. Absent a description in the reference of such a particular arrangement, the Examiner's position is based on a speculative possibility and not the inevitability that is required to support a rejection based on inherency.

In conclusion, based on the foregoing, we are constrained to reverse the Examiner's rejection.

REVERSED

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